

NGRX-PB Power Booster



Description

- Provides capability for a zone on a GRAFIK Eye 3000 Series Control Unit to control a larger load. Allows the zone to dim or switch a fully-loaded circuit of lighting.
- Dims or switches most popular lighting sources and load types.
- Models available for 120V, 220-240V (non-CE), 230V (CE) or 100V input power.

Works with:

- GRAFIK Eye 3000 Series Control Units
- LP Dimming Panels
- HomeWorks Remote Power Panels
- Neutral-referenced wallbox dimmers by Lutron.

Models and Capacities

Input Power	Capacity	Model Number
120V	2000W/VA ¹	NGRX-PB-WH
220-240V (non-CE)	2400W/VA	NGRX-PB-AU-WH
230V (CE)	1200W/VA (flush mount with faceplate) 1840W/VA (surface mount without faceplate)	NGRX-PB-CE-WH
100V	1600W/VA	NGRX-PB-JA-WH

Two Power Boosters may be used on a zone to double the capacity. Use the HP Dimming Module System for zones that exceed the capacity of the Power Booster.

¹ Measured current will not exceed continuous load rating due to voltage drop in the dimmer.

Job Name:	Model Numbers:
Job Number:	

Specifications

Power

- Input power: 120V, 220-240V (non-CE), 230V (CE), or 100V. All voltages 50/60 Hz, phase-to-neutral.
- Load (output) power: Phase independent of Control Unit.

Sources/Load Types

Operates these sources with a smooth continuous Square Law dimming curve or on a full conduction non-dim basis:

- Incandescent (Tungsten)
- Halogen
- Magnetic Low-Voltage Transformer¹
- Lutron Tu-Wire™ Electronic Fluorescent Dimming Ballast
- Neon/Cold Cathode

Key Design Features

Patented RTISS™ circuitry compensates in real time for incoming line voltage variations: No visible flicker with +/-2% change in RMS voltage/cycle and +/-2% Hz change in frequency/second.

Terminals

Accept up to two #12 AWG (2.5mm²).

Environment

32-104°F (0-40°C). Relative humidity less than 90% non-condensing.

Mounting

Surface or recess mount indoors only.

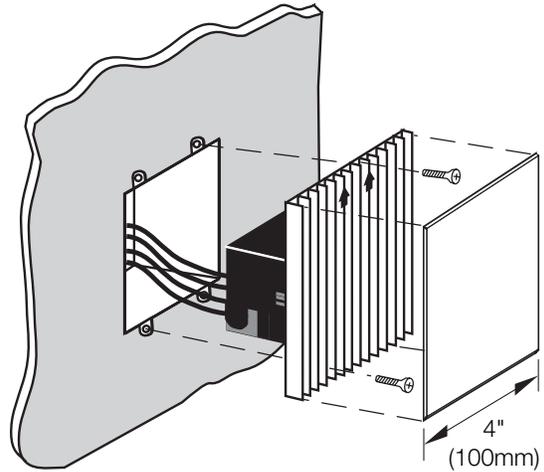
¹Must have iron core (magnetic) transformers

Job Name:	Model Numbers:
Job Number:	

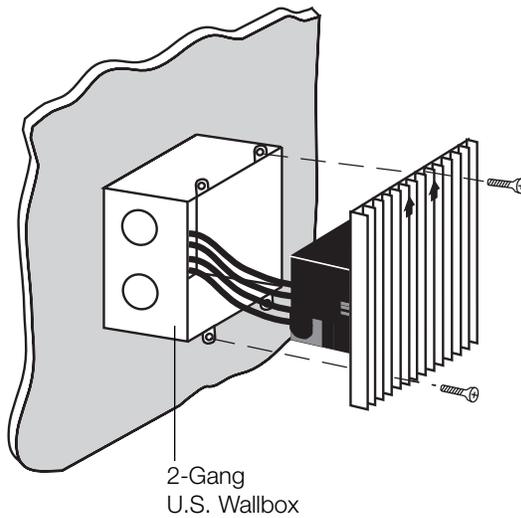
Dimensions And Mounting

- Recess or surface mount in 2-gang U.S. wallbox 3.5" (89mm) deep. Indoors only.
- Power Booster generates heat; mount only where ambient temperature is 32-104°F (0-40°C).
- Mount with arrows facing up to ensure adequate cooling.
- Allow 4.5" (114mm) above and below unit and between faceplates when mounting several in a vertical layout.
- For better heat dissipation, surface mount without faceplate.
- Mount so line (mains) voltage wiring is at least 6 feet (1.8m) from sound or electronic equipment and wiring.
- Mount Interface within 7° of true vertical.

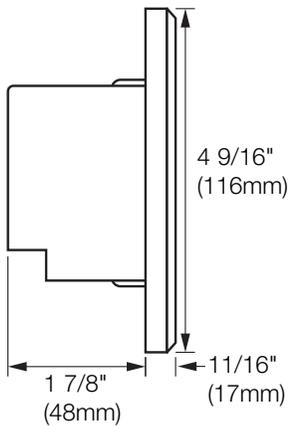
Recess Mount with Faceplate



Surface Mount without Faceplate



Side View



<p>Job Name:</p>	<p>Model Numbers:</p>
<p>Job Number:</p>	

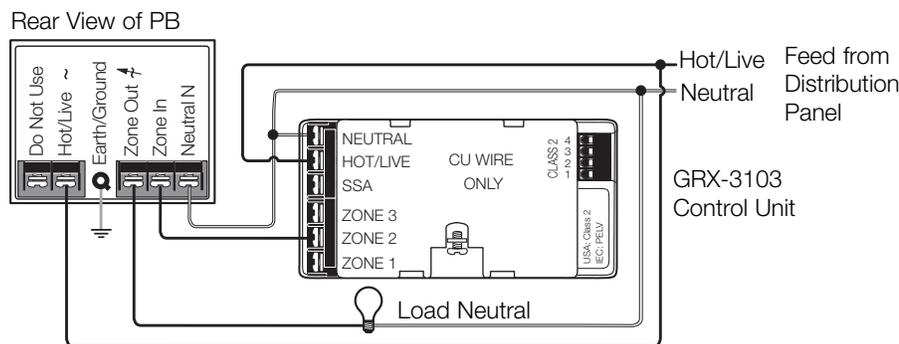
Wiring

- Pull #12 AWG (2.5mm²) Copper (Cu) wires (75°C minimum) for input power and load circuit.
- Strip 1/2" (12mm) insulation from wires before connecting.
- Run separate neutral for load circuit - no common neutrals. Neutral (N) terminal is for Control Unit, not the load neutral.

Single Power Feed

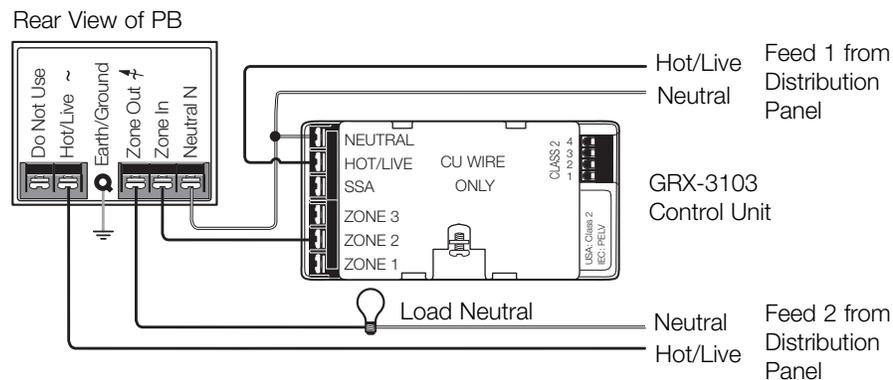


The Power Booster may be on the same circuit as the Control Unit only if the total load does not exceed the rating of the breaker.



Multiple Power Feeds

The load breaker/MCB may be on a different phase than the control breaker/MCB.



With Other Lutron Lighting Controls

To wire a Power Booster to lighting control equipment other than a GRAFIK Eye 3000 Series Control Unit:

- Run a Neutral wire from the control equipment to Neutral N on the PB.
- Run a dimmed hot wire from the control equipment to Zone In on the PB.

Job Name:	Model Numbers:
Job Number:	